

Claims

- [c1] A device for a combustion chamber (1) in a gas turbine for controlling the intake of gas to a combustion zone (10, 11) of the combustion chamber, said device comprising: a control element (12, 12') arranged outside the combustion chamber; said control element (12, 12') further comprising a cover means (13) for covering at least a first inlet to the combustion zone, said cover means being displaceable relative to the combustion chamber, and a support means (16) for the control element (12, 12') which is connected to the cover means, said support means (16) being accommodated in a structure (4) at a rear of the combustion chamber.
- [c2] The device as recited in claim 1, wherein the structure (4) in which the support means (16) is accommodated forms at least part of the cover means (13).
- [c3] The device as recited in claim 1, wherein the structure (4) in which the support means (16) is accommodated is predominantly concentrically oriented with a center line of the combustion chamber.
- [c4] The device as recited in claim 1, wherein the structure (4) in which the support means (16) is accommodated is radially oriented outside a pilot distributor (2) to the combustion chamber.
- [c5] The device as recited in claim 4, wherein the support means (16) extends around the pilot distributor (2) and the support means (16) is supported against the structure by a radially outer surface (20).
- [c6] The device as recited in claim 1, wherein the structure (4) in which the support means (16) has a circular cross-sectional shape.
- [c7] The device as recited in claim 1, wherein the first cover means (13) has at least one recess (14, 15) extending predominantly in a radial direction through a wall thereof.
- [c8] The device as recited in claim 7, wherein the recess (14, 15) in the cover means (13) is arranged together with the first inlet to the combustion chamber thereby establishing a through-duct for gas from a location outside the combustion chamber

to a location inside the combustion chamber.

- [c9] The device as recited in claim 8, wherein the cover means (13) further comprises at least two sets of the recesses, a first set being arranged at a distance from a second set in a longitudinal direction of the combustion chamber.
- [c10] The device as recited in claim 7, wherein the control element (12, 12') comprises an annular cover section (18) for covering inlets to the combustion zone of the combustion chamber (1), the cover section (18) being arranged at a lesser distance from the center line of the control element than the cover means (13), and the cover section (18) being provided with at least one recess (19).
- [c11] The device as recited in claim 7, wherein the cover means (13) is ring-shaped with the recess (14, 15) extending through the wall of the ring.
- [c12] The device as recited in claim 1, wherein the cover means (13) is rotatable in relation to the combustion chamber wall.
- [c13] The device as recited in claim 1, wherein the support means (16) and the cover means (13) are fixed to one another.
- [c14] The device as recited in claim 1, wherein the control element (12, 12') is rotatable relative to the outer structure (4).
- [c15] The device as recited in claim 1, wherein the cover means (13) is arranged at a greater radial distance from a central axis through the control element (12, 12') than is the means of support (16).
- [c16] The device as recited in claim 1, wherein the first inlet in the combustion chamber wall, which the control element (12) is intended to control, forms a gas inlet to at least one swirl (8, 9) arranged in the combustion chamber.
- [c17] The device as recited in claim 1, wherein the control element (12, 12') further comprises a second cover means (30) configured to cover at least a second inlet (33) to the combustion zone, the second inlet being arranged at a distance from the

first inlet in the longitudinal direction of the combustion chamber (1).

- [c18] The device as recited in claim 17, wherein the second cover means (30) has at least one recess (32) which extends at least largely in a radial direction through the wall thereof.
- [c19] The device as recited in claim 18, wherein the at least one recess (32) in the second cover means (30) is arranged, together with the second inlet (33) to the combustion chamber, to form a through-duct for gas from a location outside the combustion chamber to a location inside the combustion chamber.
- [c20] The device as recited in claim 18, wherein the second cover means (30) is ring-shaped and the recess (32) extends through a wall of the ring.
- [c21] The device as recited in claim 20, wherein the second cover means (30) is rotatable relative to the combustion chamber wall.
- [c22] The device as recited in claim 21; wherein the second cover means (30) is connected to the first cover means (13) by at least one arm (31, 34, 35).